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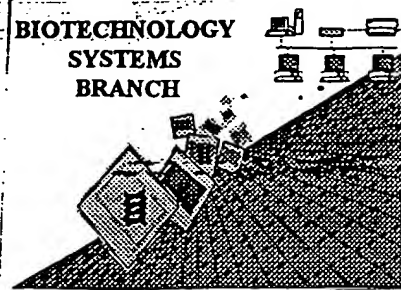
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K. Conalla

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



p#12

**RAW SEQUENCE LISTING  
ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/373,658 A

Source: 1642

Date Processed by STIC: 11-20-00

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin30help@uspto.gov](mailto:patin30help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/373,658A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☒ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.
- 12 ☐ Use of <220>Feature (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

Canela

1642

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/373,658A DATE: 11/20/2000  
 TIME: 16:02:55

Input Set : A:\seqlist14881070006.txt  
 Output Set: N:\CRF3\11202000\I373658A.raw

Does Not Comply  
 Corrected Diskette Needed  
 see pp. 1, 2

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7 <110> APPLICANT: Iruela-Arispe, Luisa  
 10 Hastings, Gregg A.  
 13 Ruben, Steven M.  
 16 Jonak, Zdenka L.  
 19 Trulli, Stephen H.  
 22 Fronwald, James A.  
 25 Terrett, Jonathan A.  
 31 <120> TITLE OF INVENTION: Meth1 and Meth2 Polynucleotides and Polypeptides  
 37 <130> FILE REFERENCE: 1488.1070006  
 43 <140> CURRENT APPLICATION NUMBER: 09/373,658A  
 47 <141> CURRENT FILING DATE: 1999-08-13  
 54 <160> NUMBER OF SEQ ID NOS: 127  
 60 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORRED SEQUENCES

37488 <210> SEQ ID NO: 95  
 37491 <211> LENGTH: 716  
 E--> 37494 <212> TYPE: CDNA  
 37497 <213> ORGANISM: Homo sapiens  
 37503 <400> SEQUENCE: 95  
 37506 taagtttgc agtcctttgc aaacagactg acgctgagtg tccgtgtcga gtcaataagt 60  
 37509 gcacttttac cttttaacct atgccctcta cttgaaccgg agcaagggtc agtcactgg 120  
 37512 acagttgatg atagggtctg ccgcccata cctctctctc tccccctta ggaatttgtg 180  
 37515 cagtactgga ggggttgcyg caatgggagc cctgggtggg cgtgctgccc ttgatatggc 240  
 37518 caagggagccc agtcaccaca gtggagagccc ttgtctgcac ctcagtaccg catgtccagg 300  
 37521 agcacaagac tggccctcgc cccctgaat cacagggggc acagctggcl ttcgcagggc 360  
 37524 ttggcatcct cgggtttcag agccttggtg cagggtggcag aggcctggcc ggaggggtcc 420  
 37527 ctgcactcta cagttcgctt ctgccagccg gccccgcagg tgctagagca ctccagaccg 480  
 37530 tccccagca cccactgtgc gtygagcagc ggcctggatg tgttgggtgt tgcctctctt 540  
 37533 ttgctgctct gcatgctaaa agtcacgtca ttaygaanca aagaagggtgt atttgacttt 600  
 37536 ttggggggaa gaacctcgcc caggactgtc aggaagctyca ctgtcagaag gclctgcnaa 660  
 37539 ggcccnagaag ctctgcagnc gctccagggt ggcgatggag ccgtgtactt caggat 716

Valid responses for &lt;212&gt; are:

- DNA  
 - RNA  
 - PRT

US 09/373,658A

P.2

<210> 94 Seq # 94

<211> 652

<212> DNA

<213> Homo sapiens

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<400> 94

→ missing mandatory <220> to <223>  
features to explain "n" at location  
524. See #10 on Error Summary

Sheet

ggcataagat cacacttttag ttcagagaca catttgata aatacttgaa atggatccac 60  
ccctgcaggt ggcagcctga gaacatggcg ctgcaggggg accagggcag cgtctggttc 120  
aggtggacga acagcgggtgc catcacgtgg tgcttgccca tgggcccga gagccgtgtg 180  
cagggcttgg agtcgtcgtg gggcatgctg aggacgtgcc ctagtccatg ggccaggggtg 240  
tgggcccgcct ggagcccctc atcctcgatc acggagcagc ttttgttggg gtcacaaatg 300  
gtcccgatgt ctgccacacc caggggtgtca cacagcccct cctgccaca gaagttctgt 360  
ctggtgagca ggatggccgt gtcgtagtgc tctgggtggc ggtcgtctgg ctggttgaaa 420  
cgccgctgcc agttgcagaa gttacgcagt gtaagcccc cattgtcgga cacctctggg 480  
ccccattttt catctttctac gatcagcact tttaccacca tca<sup>o</sup>ngttgat ggaattcttg 540  
atgctggggg gctttagaaa tcgggcttgc cacgaaaatt aacctcagga tgtggttctg 600  
caggtcggcc cgtaaagggc gccatggacg catcgccac caacagcgtt tc 652

← This error is indicated elsewhere  
in the sequence listing. Please check  
entire sequence listing for "n's" and "Xaa's"  
and ensure that an explanation is presented in the <220> to <223>  
features.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/373,658A

DATE: 11/20/2000  
TIME: 16:02:58

Input Set : A:\seqlist14881070006.txt  
Output Set: N:\CRF3\11202000\I373658A.raw

L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:2250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:2256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:4453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:4489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:4495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:4501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:4752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:4770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:4776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:4899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:4929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:4935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:5008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:5014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:27739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:27745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:28704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:28824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43  
L:28960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:28978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:28984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:29080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:29200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:29206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:29212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:29322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:29467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:29473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:29479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:29485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:29663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:29669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:29675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:29681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:29839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:29845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:29851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:29857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:29863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

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VERIFICATION SUMMARY DATE: 11/20/2000  
PATENT APPLICATION: US/09/373,658A TIME: 16:02:58

Input Set : A:\seqlist14881070006.txt  
Output Set: N:\CRF3\11202000\I373658A.raw

L:30189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:30207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:37476 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:94  
L:37476 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:94  
L:37476 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:94  
L:37476 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:94  
L:37476 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:94  
L:37494 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:37656 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:98  
L:37656 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:98  
L:37656 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:98  
L:37656 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:98  
L:37656 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:98  
L:37665 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:98  
L:37665 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:98  
L:37665 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:98  
L:37665 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:98  
M:340 Repeated in SeqNo-98  
L:37746 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:100  
L:37746 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:100  
L:37746 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:100  
L:37746 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100  
L:37746 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100  
L:37788 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:101  
L:37788 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:101  
L:37788 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:101  
L:37788 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101  
L:37788 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101  
L:37824 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:102  
L:37824 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:102  
L:37824 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:102  
L:37824 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102  
L:37824 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102  
L:37827 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:102  
L:37827 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:102  
L:37827 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:102  
L:37827 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102  
M:340 Repeated in SeqNo-102  
L:38208 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:111  
L:38208 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:111  
L:38208 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:111  
L:38208 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:111  
L:38208 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:111  
L:38220 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:111  
L:38220 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:111  
L:38220 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:111  
L:38220 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:111  
M:340 Repeated in SeqNo-111  
L:38325 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:114

VERIFICATION SUMMARY                      DATE: 11/20/2000  
PATENT APPLICATION: US/09/373,658A        TIME: 16:02:58

Input Set : A:\seqlist14881070006.txt  
Output Set : N:\CRF3\11202000\I373658A.raw

L:38325 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:114  
L:38325 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:114  
L:38325 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:114  
L:38325 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:114  
L:38328 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:114  
L:38328 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:114  
L:38328 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:114  
L:38328 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:114  
M:340 Repeated in SeqNo=114  
L:38334 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:114  
L:38334 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:114  
L:38334 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:114  
L:38334 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:114  
L:38337 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:114  
L:38337 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:114  
L:38466 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:117  
M:340 Repeated in SeqNo=117  
L:38514 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:118  
L:38538 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:119  
M:340 Repeated in SeqNo=119  
L:38622 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:121  
L:38703 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:123  
M:340 Repeated in SeqNo=123  
L:38769 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:124